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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,139	04/04/2001		Keith E. Moll	1545	2337
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OVERLAN	D PARK,	KS 66251-2100	2687		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Applica	tion No.	Applicant(s)					
		09/826,	139	MOLL ET AL.					
	Office Action Summary	Examin	er	Art Unit					
		Un C Ch		2687					
Period fo	The MAILING DATE of this commun or Reply	nication appears on t	he cover sheet w	ith the correspondence ac	idress				
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this corn e period for reply specified above is less than thirty (5) period for reply is specified above, the maximum so the to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no nunication. sto) days, a reply within the statutory period will apply and y will, by statute, cause the a	event, however, may a r tatutory minimum of thin will expire SIX (6) MON polication to become AE	reply be timely filed by (30) days will be considered time it HS from the mailing date of this of ANDONED (35 U.S.C. § 133).	ly. communication.				
Status									
1)	Responsive to communication(s) file	ed on <i>31 May 2005</i> .							
<i>,</i> —	,	2b) ☐ This action is	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)□	Claim(s) <u>1-15</u> is/are pending in the a 4a) Of the above claim(s) <u>1</u> is/are wi Claim(s) is/are allowed. Claim(s) <u>2-15</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	thdrawn from consid							
Applicat	ion Papers		·						
	The specification is objected to by the		ated or h)□ object	eted to by the Eveminer					
10/23	0)⊠ The drawing(s) filed on <u>04 April 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including				FR 1.121(d).				
11)	The oath or declaration is objected to	b by the Examiner. I	Note the attached	Office Action or form P	ΓΟ-152.				
Priority (ınder 35 U.S.C. § 119								
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have be documents have be of the priority docun anal Bureau (PCT Re	een received. een received in A nents have been ule 17.2(a)).	pplication No received in this National	Stage				
Attachmen	t(s)	٠							
1) Notic	e of References Cited (PTO-892)			Summary (PTO-413)					
3) Infon	e of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date			s)/Mail Date nformal Patent Application (PT0 	O-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 4, 2, 6, 7, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore et al. (US 6,434,381 B1) in view of Papadimitriou et al. (US 6,385,458 B1).

Regarding claim 4, Moore discloses a method for providing location based information to a mobile station in communication with a cellular wireless system, the method comprising the steps of: receiving a request for location based information regarding a service (fixed portion of the wireless communication system receiving a request for local information and services, Moore, Col. 3, lines 10-18), the request including a service identifier (the request including a profile), wherein the service identifier is associated with the service (according to the profile, local information and services for the particular mobile station is generated custom-tailored to a predetermined area around the location, Moore, Col. 4, line 64 through Col. 5, line 12); receiving a position of the mobile station associating a provider-defined region with the position of the mobile station and with the service identifier (Moore, Col. 4, lines 48 – 63); and retrieving the

location based information, wherein the location based information is associated with the provider-defined region (Moore, Col. 4, line 64 through Col. 5, line 19).

However, Moore as applied above does not specifically disclose associating a level of granularity with the service identifier; based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity. In an analogous art, Papadimitriou discloses associating a level of granularity (precision) with the service identifier (location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41 – 18). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Papadimitriou to the system of Moore in order to provide a location estimate for a terminal device associated with a user with precision for a more efficient position determining.

Regarding claim 2, Moore in view of Papadimitriou as applied to claim 4 above discloses location-based server having stored therein instructions to execute the method of claim 4 (Moore, Col. 3, lines 32 – 36 and 51 – 56, Col. 4, lines 64 – 67, Col. 5, lines 6 – 12 and Papadimitriou, Col. 4, lines 49 – 57, Col. 5, lines 37 – 46 and 56 – 64).

Regarding claim 6, Moore in view of Papadimitriou as applied to claim 4 above discloses determining whether the level of granularity is a high level of granularity and when the level of granularity is the high level of granularity

instructing position determining equipment to provide the position of the mobile station (the accuracy of a mobile phone's location is based on a subscriber priority, Papadimitriou, Col. 4, lines 49 – 57, Col. 5, lines 37 – 46 and 56 – 64).

Regarding claim 7, Moore in view of Papadimitriou as applied to claim 4 above discloses receiving global position system coordinates from the mobile station wherein the coordinates represent the position of the mobile station (Moore, Col. 3, lines 24 – 56).

Regarding claim 10, Moore in view of Papadimitriou as applied to claim 4 above discloses reading the local information and services information from a database entry, wherein the database entry is associated with the predetermined region (Moore, Col. 4, lines 64 – 67 and Col. 5, lines 6 – 12).

Regarding claim 11, Moore in view of Papadimitriou as applied to claim 4 above discloses providing the location based information associated with the predetermined region to the mobile station (Moore, Col. 4, lines 64 – 67).

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moore in view of Papadimitriou as applied to claim 4 above, and further in view of Caughran et al. (US 2002/0107029).

Regarding claim 3, Moore in view of Papadimitriou as applied to claim 4 above does not specifically disclose ascertaining a zone layer for the service identifier, wherein the zone layer is a categorization of zones for the service identifier, selecting a zone from the zone layer wherein the zone corresponds to

the position of the mobile station and determining the provider-defined region that encompasses the zone. In an analogous art, Caughran discloses including a zone type in the request, wherein the zone type is a categorization of zones of predetermined geographical area, selecting a geographical data from the zone type, wherein the zone based geographical data corresponds to the position of the mobile subscriber unit and determining the geographical data with respect to the zone type requested (Caughran, Paragraph 0005, lines 7 – 16). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Caughran to the modified system of Moore and Papadimitriou in order to provide a more efficient way for obtaining geographical zone data for a mobile subscriber unit.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moore in view of Papadimitriou as applied to claim 4 above, and further in view of Alperovich et al. (US 6,233,448).

Regarding claim 5, Moore in view of Papadimitriou as applied to claim 4 above discloses determining whether the level of granularity is a low level of granularity (the accuracy of a mobile phone's location is based on a service priority, Papadimitriou, Col. 4, lines 49 – 57, Col. 5, lines 37 – 46 and 56 – 64).

However, Moore in view of Papadimitriou as applied above does not specifically disclose assigning a cell identifier as the position of the mobile station. In an analogous art, Alperovich discloses assigning a cell ID to determine

the general position of the mobile station (Alperovich, Col. 3, lines 49 - 50). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Alperovich to the modified system of Moore and Papadimitriou in order to performing selected actions based upon the location of a mobile station in a mobile communications network.

5. Claims 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore in view of Papadimitriou as applied to claim 4 above, and further in view of Chern (US 2003/0060211).

Regarding claim 8, Moore in view of Papadimitriou as applied to claim 4 above does not specifically disclose mapping the provider-defined region to a universal resource locator, transmitting a request for the location based in formation to the universal resource locator and receiving a response containing the location based information from the universal resource locator. In an analogous art, Chern discloses creating the service provider to the web page URL, transmitting a request for the location based information to the URL and receiving a response containing the location of the location based information from the URL (Chern, Page 6, Paragraph 0074 and 0075). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Chern to the modified system of Moore and Papadimitriou in order to provide a way to add new features to the

communication devices to create a more efficient location based information retrieval system for a wireless communication device.

Regarding claim 15, Moore in view of Papadimitriou and further in view of Chern discloses associating a surrogate identifier with the mobile station, wherein the request includes the surrogate identifier but no other identifier for the mobile station; determining whether the response contains the surrogate identifier and when the response contains the surrogate identifier associating the location based information with the mobile station (mobile station transmits a request message to the wireless communication system whereas the message inherently contains identification which identifies the mobile station requesting the service, Moore, Col. 4, lines 17 – 63).

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Moore et al. in view of Papadimitriou et al. as applied to claim 4 above, further in view of Chern (US 2003/0060211) and further in view of Richton (US 6,650,902 B1).

Regarding claim 9, Moore in view of Papadimitriou as applied above discloses a method for providing location based information to a mobile station in communication with a cellular wireless system, the method comprising the steps of: receiving a request for location based information regarding a service (fixed portion of the wireless communication system receiving a request for local information and services, Moore, Col. 3, lines 10 – 18), the request including a service identifier (the request including a profile), wherein the service identifier is

associated with the service (according to the profile, local information and services for the particular mobile station is generated custom-tailored to a predetermined area around the location, Moore, Col. 4, line 64 through Col. 5, line 12); associating a level of granularity (precision) with the service identifier (location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41 – 18); receiving a position of the mobile station; associating a provider-defined region with the position of the mobile station and with the service identifier (Moore, Col. 4, lines 48 – 63); and retrieving the location based information, wherein the location based information is associated with the provider-defined region (Moore, Col. 4, line 64 through Col. 5, line 19).

However, Moore in view of Papadimitriou as applied above does not specifically disclose wherein the retrieving step comprises the steps of: mapping the provider-defined region to a universal resource locator; transmitting a request for the location based information to the universal resource locator; receiving a response containing the location based information from the universal resource locator. In an analogous art, Chern discloses mapping the provider-defined region to a universal resource locator, transmitting a request for the location based information to the universal resource locator, receiving a response containing the location based information from the universal resource locator (creating the service provider to the web page URL, transmitting a request for the

location based information to the URL and receiving a response containing the location of the location based information from the URL (Chern, Page 6, Paragraph 0074 and 0075). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Chern to the modified system of Moore and Papadimitriou in order to provide a way to add new features to the communication devices to create a more efficient location based information retrieval system for a wireless communication device.

However, Moore in view of Papadimitriou and further in view of Chern as applied above does not specifically disclose associating a surrogate identifier with the mobile station, wherein the request includes the surrogate identifier but no other identifier for the mobile station; determining whether the response contains the surrogate identifier; and when the response contains the surrogate identifier, associating the location based information with the mobile station. In an analogous art, Richton discloses associating a surrogate identifier with the mobile station, wherein the request includes the surrogate identifier but no other identifier for the mobile station; determining whether the response contains the surrogate identifier; and when the response contains the surrogate identifier, associating the location based information with the mobile station (Richton, Col. 10, lines 36 – 47). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Richton

to the modified system of Moore, Papadimitriou and Chern in order to provide a more efficient system, which tailors beneficial information to specific individuals.

7. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Richton (US 6,650,902 B1) in view of Papadimitriou et al. (6,385,458 B1)

Regarding claim 12, Richton discloses a wireless switching station (Richton, Fig. 2, 220), location-determining server (Richton, Fig. 3, 303), a location-based controller (Richton, Fig. 3, 301) connected to the wireless switching station and to the location-determining server, receiving from the switch a request for location based information regarding a service, wherein the request includes local information and services (Richton, Col. 3, lines 9-28), associating a predetermined region with the position of the mobile station and with the local information and services (Richton, Col. 8, lines 58-66), retrieving the local information and services associated with the predetermined region and providing the local information and services to the wireless switching station for forwarding to the mobile station (Richton, Col. 7, lines 50-52).

However, Richton as applied above does not specifically disclose associating a level of granularity with the service identifier and based on the service identifier instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity. In an analogous art, Papadimitriou discloses associating a level of granularity with the service identifier and based on the service identifier instructing the cellular wireless

Application/Control Number: 09/826,139

Art Unit: 2687

system to determine the position of the mobile station at the associated level of granularity (location of a mobile phone's accuracy is based on a subscriber priority, Papadimitriou, Col. 4, lines 49 – 57, Col. 5, lines 37 – 46 and 56 – 64). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Papadimitriou to the system of Richton in order to allow flexibility in using and allocating mobile communication network resources to estimate the location of a mobile phone, providing additional sources of revenue for mobile communication network operators.

Page 11

8. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richton (US 6,650,902 B1) in view of Papadimitriou et al. (6,385,458 B1) in view of Caughran (US 2002/0107029) and in view of Chern (US 2003/0060211).

Regarding claim 13, Richton discloses a method for providing location based information to a mobile station in communication with a cellular wireless system, the method comprising the steps of receiving a service identifier, wherein the service identifier is associated with a service (Richton, Col. 3, lines 9-28, Col. 6, lines 31-34 and 46-52).

However, Richton does not specifically disclose associating a level of granularity with the service identifier, instructing the cellular wireless system to determine a position of the mobile station at the associated level of granularity. In an analogous art, Papadimitriou discloses associating a level of granularity with

the service identifier, instructing the cellular wireless system to determine a position of the mobile station at the associated level of granularity (the accuracy of a mobile phone's location is based on a subscriber priority set by the system, Papadimitriou, Col. 4, lines 49 – 57, Col. 5, lines 37 – 46 and 56 – 64). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Papadimitriou to the technique of Richton in order to allow flexibility in using and allocating mobile communication network resources to estimate the location of a mobile phone, providing additional sources of revenue for mobile communication network operators.

However, Richton in view of Papadimitriou as applied above does not specifically disclose associating a zone layer with the service identifier, wherein the zone layer is a categorization of zones for the service identifier; selecting a zone from the zone layer wherein the zone corresponds to the position of the mobile station; determining a provider-defined region that encompasses the zone. In an analogous art, Caughran discloses associating a zone layer with the service identifier, wherein the zone layer is a categorization of zones for the service identifier; selecting a zone from the zone layer wherein the zone corresponds to the position of the mobile station and determining a provider-defined region that encompasses the zone (Caughran, Paragraph 0005, lines 7 – 16). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Caughran to the

modified system of Richton and Papadimitriou in order to provide a more efficient way for obtaining geographical zone data for a mobile subscriber unit.

However, Richton in view of Papadimitriou and in view of Caughran does not specifically disclose mapping the provider-defined region to a universal resource locator; transmitting a request for the location based information to the universal resource locator; receiving a response containing the location based information from the universal resource locator and providing the location based information to the mobile station. In an analogous art, Chern discloses mapping the provider-defined region to a universal resource locator, transmitting a request for the location-based information to the universal resource locator, receiving a response containing the location based information from the universal resource locator and providing the location based information to the mobile station (creating the service provider to the web page URL, transmitting a request for the location based information to the URL and receiving a response containing the location of the location based information from the URL, Chern, Page 6, Paragraph 0074 and 0075). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Chern to the modified system of Richton, Papadimitriou and Caughran in order to provide a way to add new features to the communication devices to create a more efficient location based information retrieval system for a wireless communication device.

Application/Control Number: 09/826,139 Page 14

Art Unit: 2687

Regarding claim 14, Richton in view of Papadimitriou, in view of Caughran and in view of Chern as applied to claim 13 above discloses location-based server having stored therein instructions to execute the method of claim 13 (Richton, Col. 3, lines 9 – 28).

Response to Arguments

9. Applicant's arguments filed 5/31/2005 have been fully considered but they are not persuasive.

The applicant presented the argument that the references provided by the examiner fails to disclose the claimed invention. The examiner disagrees with the argument presented by the applicant.

Regarding claim 4, the applicant argued that the amended claim 4 reciting "receiving a request for location based information regarding a service, the request including a service identifier, wherein the service identifier is associated with the service." clearly distinguishes claim 4 from the references presented by the examiner. However, Moore in view of Papadimitriou discloses receiving a request for location based information regarding a service (fixed portion of the wireless communication system receiving a request for local information and services from the user, Moore, Col. 3, lines 10 – 18), the request including a service identifier (the request including a profile), wherein the service identifier is associated with the service (according to the profile, local information and services for the particular mobile station is generated custom-tailored to a

predetermined area around the location, Moore, Col. 4, line 64 through Col. 5, line 12) and moreover, Papadimitriou discloses associating a level of granularity (locating the user according to a precision set by the system) with the service identifier (service identifier being a location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41 - 18).

Page 15

Regarding claim 9, the applicant argued that the references provided by the examiner does not specifically disclose, "associating a level of granularity with the service identifier". However, Moore in view of Papadimitriou, further in view of Chern and further in view of Richton discloses associating a level of granularity (locating the user according to a precision set by the system) with the service identifier (service identifier being a location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41 – 18).

Regarding claim 12, the applicant argued that the amended claim 12 reciting, "receiving from the switch a request for location based information regarding a service, wherein the request includes a service identifier, and wherein the service identifier is associated with the service." clearly distinguishes claim 12 from the references presented by the examiner. However, Richton in view of Papadimitriou discloses a location-based controller (Richton, Fig. 3, 301)

connected to the wireless switching station and to the location-determining server, receiving from the switch a request for location based information regarding a service, wherein the request includes local information and services (Richton, Col. 3, lines 9-28), associating a predetermined region with the position of the mobile station and with the local information and services (Richton, Col. 8, lines 58-66), retrieving the local information and services associated with the predetermined region and providing the local information and services to the wireless switching station for forwarding to the mobile station (Richton, Col. 7, lines 50-52) and associating a level of granularity (locating the user according to a precision set by the system) with the service identifier (service identifier being a location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41-18).

Regarding claim 13, the applicant argued that the amended claim 13 reciting, "receiving a request for location based information regarding a service, the request including a service identifier, wherein the service identifier is associated with the service." Clearly distinguishes claim 13 from the references presented by the examiner. Richton in view of Papadimitriou, in view of Caughran and in view of Chern discloses receiving a service identifier, wherein the service identifier is associated with a service (Richton, Col. 3, lines 9-28, Col. 6, lines 31-34 and 46-52) and associating a level of granularity (locating the user according to a precision set by the system) with the service identifier

(service identifier being a location request); based on the service identifier, instructing the cellular wireless system to determine the position of the mobile station at the associated level of granularity (Papadimitriou, Col. 6, lines 41 – 18). Therefore, the rejection mailed on 4/4/2005 stands.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C. Cho whose telephone number is (571) 272-7919. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/826,139

Art Unit: 2687

Page 18

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